SECTION 1

TABULATION OF ACCEPTANCE SAMPLING AND TESTING

In Section 1, where the Testing Frequency specifies Initial, the term will mean a test conducted once prior to paving for the life of a project.

In the footnote of Section 1, the term **approved** will mean as certified by the Regional Materials Engineer based on historical test data of the material and/or the Contractor's test data.

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Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
01558	Temporary Traffic Striping				
	Pavement Marking Tape	Test Report	Submit a 2 foot long sample of each color to Central Materials Chemistry Lab prior to application. A test report will be issued for all pretested material.	Central Materials Lab	Rejection
Related Items:	Temporary Pavement Markers	Test Report	Submit a sample of each color to Central Materials Chemistry Lab prior to application. A test report will be issued for all pretested material.	Central Materials Lab	Rejection
02765	Paint and Glass Beads				
01561	Temporary Environmental Fence				
	Fence Metal Post	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
01891	Move Street Sign and Mailbox Assemblies				
Related Items: 03055 06055	Concrete Wood posts, shelf and brace				
01892	Reconstruct Clean out, Meter, Valve, Manhole, and Monument Boxes Extension Rings	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
Related Items: 03055	Concrete				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02056	Common Fill	Soil Classification AASHTO M-145	Source Acceptance - Submit test reports	Material Source	Contractor must select another materials source
		Soil Classification AASHTO M-145	At least one test per 20,000 yd³ in each soil type. (A minimum of one test per source or soils type.)	Grade	Rejection
		Test Report	Submit form T-348 weekly		
Related Items: 02330 02332	Embankment Embankment for Bridge Compaction				
02061	Select Aggregates	Sieve Analysis AASHTO T-27 & T-11	A minimum of five determinations when the daily production exceeds 2,500 tons, a minimum of four determinations when it is between 1,500 and 2,500 tons, and a minimum of three determinations when less than 1,500 tons. (A minimum of one determination per 500 tons.)	Grade	Correct or remove and replace with specification material.
		Test Report	Submit form T-348 weekly.		
02075	Geotextiles	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02078	Asphalt Overlay Fabric	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
		Test Report	Each Shipment Issued by Central Lab	Manufacturer's Plant or Central Lab	Rejection
02082	Water Meter	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02324	Compaction	Laboratory Density (AASHTO T-99 Method D) (AASHTO T-180 Method D for A-1 soils)	For embankments up to 100,000 yd - one test per 20,000 yd for each layer, then one test per 50,000 yd for each layer.		
	Embankment	Field Density and Moisture Content by Nuclear Gage AASHTO T-310	A lot equals one production day. One test per sublot A sublot is approximately equal to 3,000 tons or 2,000 yd³ and 6,000 yd³ in cut sections.	Grade	Contractor must continue to compact until density meets specification.
	Backfill	Field Density and Moisture Content by Nuclear Gage AASHTO T-310	Four tests per lot Test lot < 200 yd ³ and cannot be more than one pipe culvert or small structure.	Project Site	Contractor must continue to compact until density meets specification.
	Embankment for Bridge	Field Density and Moisture Content by Nuclear Gage AASHTO T-310 Test Report	Six tests per end per each 1 foot layer. Two of the six must be within 2 feet of the outside perimeter per layer. Submit form T-348 weekly	Grade	Contractor must continue to compact until density meets specification.
			Submit form T- 348 weekly Submit form T- 348 weekly		

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02330	Embankment	Soil Classification AASHTO M-145	One test per 20,000 yd ³ in each soil type. (A minimum of one test per source or soils type.)	Grade	Rejection
	Embankment material may be too rocky to test for density when retention on the No. 10 sieve is > 65% or when retention on the No. 4 sieve is >60%	Run gradation to confirm too rocky to test. Document compaction effort.	Continued visual observation	Grade	Develop and perform acceptable compaction procedures.
Related Items:		Test Report	Submit form T-348 weekly		
02056 02324	Common Fill Compaction				

	Material Type or Type of	Testing Method/ Acceptance	Testing Frequency	Point of	Required Action for out of
Section	Construction	Documentation	resting Prequency	Acceptance	Specification Material
02332	Embankment For Bridge	Soil Classification AASHTO M-145	One test per 20,000 yd in each soil type. (A minimum of one test per source or soils type.)	Grade	Rejection
	Embankment material may be too rocky to test for density when retention on the No. 10 sieve is > 65% or when retention on the No. 4 sieve is >60%	Run gradation to confirm too rocky to test. Document compaction effort.	Continued visual observation	Grade	Develop and perform acceptable compaction procedures.
		Test Report	Submit form T-348 weekly		
Related Items: 02056 02324	Common Fill Compaction				
02372	Wire Enclosed Riprap	Wear Check Sample* AASHTO T96	Submit 100 lb sample from each source. Use form T-268.	Materials Source	Rejection
		Soundness* AASHTO T-104	Submit 100 lb sample from each source. Use form T-268.	Materials Source	Rejection
Related Items: 02056 02316 02324 03211	Common Fill Roadway Excavation Compaction Reinforcing Steel and Welded Wire.				
02373	Riprap	Wear Check Sample* AASHTO T96	Submit 100 lb sample from each source. Use form T-268.	Materials Source	Rejection
		Soundness* AASHTO T-104	Submit 100 lb sample from each source. Use form T-268.	Materials Source	Rejection
02376	Erosion Control Blankets/Channel Liners	Manufacturer's Certificate of Compliance	One per lot	Project Site	Rejection
Related Items: 02922	Seed				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02455	Driving Piles	Certified mill test report and test report.	Issued by Central Lab based on tests performed prior to shipment. A test report will accompany the shipment. All pretested material will be tagged with an orange UDOT sticker.	Manufacturer's Plant or Central Lab	Rejection
Related Items 03055 03211	Concrete Reinforcing Steel				
02466	Drilled Caisson				
Related Items 03055 03211	Concrete Reinforcing Steel				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02610	Pipe Culverts Asphalt Coating	Test Report	Issued by Central Lab (Asphalt/Chemistry Lab) based on tests performed prior to shipment. A test report will be	Central Lab (Asphalt/Chemistry Lab)	Rejection
	Corrugated Pipe Culverts and Pipe Arch	Manufacturer's Certificate of	supplied prior to shipment. Each Shipment	Project Site	Rejection
	Culverts	Compliance Visual Inspection	Each Shipment	Project Site	Rejection
	Smooth-lined Pipe Culverts and Pipe Arch Culverts Excluding Concrete Pipe	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
		Visual Inspection	Each Shipment	Project Site	Rejection
	Aluminized Pipe	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
		Visual Inspection	Each Shipment	Project Site	Rejection

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02610	Pipe Culverts (continued)				
	Pipe - Concrete	Manufacturer's Certificate of Compliance. Attach Quality Control (QC) test report for each production run or lot of pipe represented. The QC test report must include: Load bearing (D-load), compressive strength, permeability and visual inspection pass/fail test results for each production run or lot represented.	Each Shipment	Project Site	Rejection
	Concrete	Per Section 03055 except as follows: Mix design (trial batches) must be submitted and approved by the Region Lab each new calendar year.	Each Shipment	Project Site Manufacturer's Plant or Central Lab	Rejection

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02610	Pipe Culverts (continued)				
	Pipe - Metal	Test Report	Issued by Central Lab based on tests performed prior to shipment. A test report will accompany the shipment. All pretested material will be tagged with an orange UDOT sticker.	Manufacturer's Plant or Central Lab	Rejection
		Visual Inspection	Each Shipment	Project Site	Rejection
02611	Diversion Box Gate and Frame	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02613	Culvert End Section	Test Report	Issued by Central Lab based on tests performed prior to shipment. A test report will accompany the shipment. All pretested material will be tagged with a orange UDOT sticker.	Manufacturer's Plant or Central Lab	Rejection
		Visual Inspection	Each Shipment	Project Site	Rejection
02622	Underdrain				
Related Items: 02610 02061 02075	Pipe Culverts Select Aggregate Geotextile				
02643 Related Items: 02324 03055 03152	Concrete-Lined Ditch Compaction Portland Cement Concrete Concrete Joint Control				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02645	Precast Concrete Box Culvert	Fabricators must be pre-qualified by the Materials Division through the Quality Management Plan: Precast/Prestressed Concrete Structures. Select from Materials Division list of prequalified sources.		Prequalified Source	Rejection of product and possible removal from prequalified source list.
	Concrete	Per Section 03055 except as follows. Mix Design(Trial Batches) must be submitted and approved, by the Materials Division.	Issued by Central Lab based on tests performed prior to shipment. A test report will accom-pany the shipment. All pretested material will be tagged with an orange UDOT sticker.	Fabricators Plant	Rejection
		each new calendar year. Visual Inspection	Each Shipment	Project Site	Rejection
Related Items: 03211	Reinforcing Steel (Epoxy Coated) Welded Steel Wire Reinforcement				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02712	Lean Concrete Base Course	Wear * AASHTO T-96	Submit a 200 lb sample of aggregate per source, use form T-268.	Materials Source	Contractor must select another materials source.
		Unit Weight * AASHTO T-19	Submit a 200 lb sample of aggregate per source, use form T-268.	Materials Source	Contractor must select another materials source.
		Liquid Limit & Plasticity Index * AASHTO T-89 and T-90	Submit a 50 lb sample of aggregate per source, use form T-268.	Materials Source	Contractor must select another materials source.
		Liquid Limit and Plasticity Index AASHTO T-89 and T-90	A minimum of one determination per week.	Stockpile	Reject material
		Water Quality AASHTO T-26	Submit a 1 qt sample for each non-potable source.	Source	Use an acceptable source.

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02712	Lean Concrete Base Course (continued)	Mix Design (Trial Batches) Contractor's trial batches to be made in accordance with standard specifications. Trial batch results shall be submitted and approved before any lean concrete is placed. Sufficient batches shall be made to cover any possible changes in mix components that might occur.	Submit a 1 pt sample of admixtures used in trial batches to Central Lab for fingerprinting. When production starts, send samples of admixtures to Central Lab to insure they are the same as used in trial batches.	Suppliers Location	Contractor may have to change his proportions of coarse and fine aggregate, wash or crush the coarse aggregate finer, or add more cement.
		Sieve Analysis AASHTO T-27 and T-11	One gradation per stockpile for each day of operation.	Stockpile	Reject material
		Slump Test AASHTO T-119 Air Test AASHTO T-152	Test the first three truck loads at start up and the first three truck loads after each shutdown of more than one hour. Take additional tests at random throughout the shift (approximately one test for every 800 yd³ of concrete). Test the first three truck loads after each failed test.	Plant Site	Another test is taken immediately. If the second test fails, the load is rejected. If the second test is in specification, a third test is taken. The load is then accepted or rejected based on the result of the third test.

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02712	Lean Concrete Base Course (continued)	Yield AASHTO T-121	A minimum of one test per day taken in conjunction with an air test.	Plant Site	Adjust mix design.
		Thickness	A minimum of one core per 1,200 yd ² .	Grade	Remove and replace with specification material, or appropriate price reduction.
		Test Report	Submit form T-258		Adjust mix design or production controls as necessary.
		Mix design check test (compressive strength)	On first day's production and on one other day during first seven days of production - one set of cylinders or cores to verify mix design and production controls.		controls as necessary.
Related Items: 03055	Portland Cement				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02715	Hydrated Lime Treated Roadbed	Lab Density AASHTO T-99 Method D	As necessary to establish laboratory density.		
		Field Density and moisture Content by Nuclear Gage AASHTO T-310	Lot < 7,800 yd ² . A minimum of one moisture and density test per sublot of 1,500 yd ² .	Grade	Contractor must rework and compact until moisture and density meet specifications.
		Temperature Requirements as per specifications.	As necessary to determine specification compliance.	Project Site	As directed by the Engineer.
		Test Report	Submit form T-348 weekly.		
Related Items: 02746 02745	Hydrated Lime Asphalt Material				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02721	Untreated Base Course	Wear * AASHTO T-96	Submit a 200 lb sample of aggregate per source, use form T-268.	Materials Source	Contractor must select another materials source.
		Unit Weight * AASHTO T-19	Submit a 200 lb sample of aggregate per source, use form T-268.	Materials Source	Contractor must select another materials source.
		Liquid Limit * AASHTO T-89 Plasticity Index * AASHTO T-90	Submit a 50 lb sample of aggregate per source, use form T-268.	Materials Source	Contractor must select another materials source.
		Liquid Limit AASHTO T-89 Plasticity Index AASHTO T-90	A minimum of one determination per five test lots. (A minimum of one determination per source.)	Grade	Remove and replace with specification material.
		Sieve Analysis AASHTO T-27 & T-11	A minimum of five determinations when the daily production exceeds 2,500 tons, a minimum of four determinations when it is between 1,500 and 2,500 tons, and a minimum of three determinations when less than 1,500 tons. (A minimum of one determination per 500 tons.)	Grade	Correct or remove and replace with specification material, or appropriate price reduction.

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02721	Untreated Base Course (continued)	Lab Density AASHTO T-180 Method D	A minimum of one test per 11,000 tons.		
		Field Density and Moisture Content by Nuclear Gage AASHTO T-310	A minimum of one determination per sublot of approximately 1,500 yd ² .	Grade	Contractor must continue to compact until density meets specification.
		Test Report	Submit form T-138 or computer printout weekly.		

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02741	Hot Mix Asphalt				
	Aggregate Source	Submit adequate sample of aggregate from each source (use form T-268)			
		AASHTO T-19 Unit Weight**	1 per source.	Stockpile or pit	Contractor must select another materials source
		AASHTO T-104 Soundness of Aggregate by use of Sodium Sulfate**	1 per source.	Stockpile or pit	Contractor must select another materials source
		AASHTO T-96 L.A. Wear**	1 per source.	Stockpile or pit	Contractor must select another materials source
		AASHTO T-112 clay lumps and friable particles**	1 per source.	Stockpile or pit	Contractor must select another materials source

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02741	Hot Mix Asphalt (continued)	Sample in accordance with AASHTO T-2			
	Aggregate properties	ASTM D-5821 Fract-face (One and two fract-face)*	1 test per week	Stockpile	Reject Stockpile
		AASHTO T-89 , T-90 - plastic limit and plasticity index *	1 test a week	Stockpile	Reject Stockpile
		AASHTO T-304 Fine aggregate angularity *	1 test a week	Stockpile	Reject Stockpile
		ASTM D-4791 Flat and elongated 1 to 3 ratio *	1 test a week	Stockpile	Reject Stockpile
		AASHTO T-176 Sand equivalent *	1 test a week	Stockpile	Reject Stockpile

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02741	Hot Mix Asphalt (continued)				
	Superpave volumetric mix design verification	AASHTO T-312 and PP-28 Gyratory volumetric mix design*	8 specimens/design	Verified mix design prior to paving	New mix design
		AASHTO T-283 as modified by UDOT 8- 957 Lottman test**	1 test 6 specimens/test	Verified mix design prior to paving	New mix design
		Pavement Analyzer (Ruting Test)**	1 test 3 specimens/test	Verified mix design prior to paving	New mix design
		AASHTO T-308 asphalt content of hot mix asphalt by the ignition method (For calibration of regional and field burn off ovens)*	(2 sets of 5 samples) 10 cold feed samples at the verified design and production asphalt binder	After verified mix design, prior to paving	
		AASHTO 209 - Rice	4 Samples		

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02741	Hot Mix Asphalt (continued)				
		AASHTO T-40 sampling of bituminous materials (Binder)	As per 02745	Hot plant	
		UDOT Materials Manual Part 8- 961 and ASTM D-3665 sampling of hot mix asphalt and random sampling	4 tests per lot	Project site	
		AASHTO T-195 degree of particle coating	Initial, then once a week	Hot plant	Modify production to meet coating requirement
		AASHTO T-308 asphalt content of hot mix asphalt by the ignition method	4 tests per lot	Project site	Bonus/deduction/rejection
		AASHTO T-11, T-27,and T-30 mechanical analysis of extracted aggregate	4 tests per lot	Project site	Bonus/deduction/rejection
		ASTM D-2726 Density of cores	10 cores per lot with two cores per sublot	Project site	Bonus/deduction/rejection
		ASTM D-3549 thickness of compacted hot mix asphalt specimens	10 cores per lot with two cored from each sublot	Project site	Correction
		AASHTO T-209 maximum specific gravity of bituminous mixture (Rice)	2 Density tests for each lot. (One Rice is an average of two replicates)	Project site	

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02741	Hot Mix Asphalt (continued)	AASHTO T-209 maximum specific gravity of bituminous mixture (Rice)	1 Density test for VMA for each lot	Project site	
		AASHTO T-312, PP- 28 Gyratory volumetric mix design (VMA)	3 Tests/lot 2 specimens/test	Project site	Bonus/deduction/rejection
		AASHTO T-283 as modified by UDOT 8- 957 Lottman test (For information only)**	1 test per week 6 specimens/test	Project site	
		Pavement analyzer (Fatigue test) (For information only)	2 tests/project 3 specimens/test	Project site	
		ASTM E 1274 Pavement roughness using a profilograph**	2 runs per lane per production day within 2 days of placement (one per wheel path)	Project site	Correction and reprofile

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02743	Hot Mix Asphalt - Bike and Pedestrian Paths				
	Aggregate Source	AASHTO T-19 Unit Weight*	Initial	Stockpile or pit	Contractor must select another materials source
		AASHTO T-104 Soundness of Aggregate by use of Sodium Sulfate*	Initial	Stockpile or pit	Contractor must select another materials source
		AASHTO T-96 L.A. Wear*	Initial	Stockpile or pit	Contractor must select another materials source
		AASHTO T-112 clay lumps and friable particles*	Initial	Stockpile or pit	Contractor must select another materials source

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02743	Hot Mix Asphalt - Bike and Pedestrian Paths (continued)				
	Aggregate properties	Sample in accordance with AASHTO T-2			
		ASTM D-5821 Fract-face. (One and two fract-face)**	Initial	Stockpile	Reject Stockpile
		AASHTO T-89, T-90 - plastic limit and plasticity index **	Initial	Stockpile	Reject Stockpile
		AASHTO T-304 Fine aggregate angularity **	Initial	Stockpile	Reject Stockpile
		ASTM D-4791 Flat and elongated 1 to 3 ratio **	Initial	Stockpile	Reject Stockpile

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02743	Hot Mix Asphalt - Bike and Pedestrian Paths (continued)				
	Hot Mix Asphalt superpave volumetric mix verification	Certificate of compliance (Previously approved mix design)*	Initial Submit design data sheet	Prior to paving	Use pre-approved mix design
		Certified mix design	Once	Prior to paving	Deduction/reject as per 02742

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02744	Hot Mix Asphalt - Procurement				
	Aggregate Source	Submit adequate sample of aggregate from each source (use form T-268)			
		AASHTO T-19 Unit Weight*	Initial	Stockpile or pit	
		AASHTO T-104 Soundness of Aggregate by use of Sodium Sulfate*	Initial	Stockpile or pit	Contractor must select another materials source
		AASHTO T-96 L.A. Wear*	Initial	Stockpile or pit	Contractor must select another materials source
		AASHTO T-112 clay lumps and friable particles*	Initial	Stockpile or pit	Contractor must select another materials source

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02744	Hot Mix Asphalt - Procurement (continued)				
	Hot Mix Asphalt superpave volumetric mix verification	AASTHO T-311 and PP-28 Gyratory volumetric mix design*	8 specimens/design	Verified mix design prior to paving	New mix design
		AASHTO T-283 as modified by UDOT 8-957 Lottman test*	1 test 6 specimens/test	Verified mix design prior to paving	New mix design

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02744	Hot Mix Asphalt - Procurement (continued)				
		Manual of Instruction 8-961 and ASTM D-3665 sampling of Hot Mix Asphalt	3 samples per 2,750 tons	Hot mix plant/ Project site	
		AASHTO T-308 asphalt content of HMA by ignition oven	3 samples per 2,750 tons	Hot mix plant/ Project site	Bonus/deduction/reject
		AASHTO T-11, T-27, T-30 Mechanical analysis of extracted aggregate	3 samples per 2,750 tons	Project site	Bonus/deduction/reject

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02745	Asphalt Materials				
	Cut-back Asphalt	Manufacturer's Certificate of Compliance. Check Sample AASHTO M-81, M-82, and ASTM D2026	Two 1 qt samples (metal can) for each truck/or trailer load of cut-back. Submit one sample per 155 tons to the central Materials Asphalt Lab for testing. Retain back-up samples until specification verification is completed. Use forms T-247 and T-281	Project or Plant Site	Appropriate price reduction UDOT 8-955
	Asphalt Emulsions/Rejuvenating Agents, SS, CSS, MS, CMS, CQS, emulsified primes/Type B, C, D	Asphalt Emulsion Quality Management System. (QMP 508) select from UDOT's list of pre-qualified sources. Verfy by contacting "Asphalt Specialist Engineer"	AEQMS samples obtained and performed by the Central Laboratory	Prequalified Source	Not to be shipped to project
		Check sample - Only if product is questionable	Submit a 1 qt sample (plastic bottle) only when product is questionable.	Project Source	As directed
		Upon completion of the project, inform "Asphalt Specialist Engineer" of quantities used for recording.	4		
	Chip-Seal Coat Asphalt Emulsions CRS-2A, 2B, CRS- 2P, LMCRS-2, and HFRS-2P	AASHTO M-140, M-208	Submit 1 qt sample (plastic bottle) per truck and/or trailerload. Test at Project Site	Project site	Rejection

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02745	Asphalt Materials (continued)				
	PG Asphalt Binders	Check Sample AASHTO MP-1 and UDOT 8-209	One random sample (comprised of three individual 1 qt, metal cans) per production day at a random time from the mix plant's asphalt tank injection line. Two cans are retained by UDOT and the other by the Contractor. The Contractor and UDOT will witness and certify the sample being taken. The certificate will accompany the sample. This sample represents one binder sublot. Each week's production is a binder lot with a maximum of eight sublots. If two sublots or less are accumulated within a production week, include these in the next week's production. Thus, a binder lot shall consist of at least three (3) sublots. Submit one random sublot sample out of each binder lot to the Central Laboratory (Asphalt Laboratory) for testing or inspection. Retain back up sample along with all other samples until specification verification is completed. (See Quality Management Plan 509.4.1. Use forms T-247 and T-281.)	Hot-mix plant site.	Appropriate price reduction UDOT 8-209.5.
	Hot-Pour Bituminous Concrete Crack Sealant	Manufacture's Certificate of Compliance. Select from Materials Division list of pre-qualified sources.	Each shipment	Project Site	Rejection

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02746	Hydrated Lime	Suppliers must be prequalified by The Materials Division through the Quality Management Plan: Hydrated Lime. Select from Materials Division list of prequalified sources.		Prequalified Source	Rejection of product and possible removal from prequalified source list.
		Test Report	One per project issued by central lab based on tests performed prior to shipment	Central Lab	
Related Items: 02746	Hydrated Lime for Asphalt Mixture				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02746	Hydrated Lime (continued)				
	Hydrated Lime for Asphalt Mixture	Moisture (Aggregate) AASHTO T-84 and T-85	Once per production day.	Cold feed ahead of Pugmill	Contractor must add enough water to aggregates to meet specifications.
		Pugmill Calibration	Initially verify calibration (lime, moisture, and aggregate) until satisfactory results are obtained. Check a minimum of one per day thereafter. (4 lb sample)		
		Uniformity of mix	Document in plant inspection records.		
		Daily monitoring of Method A or B called for in the bid schedule			Meets the requirement of 02746
Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out o Specification Material
02748	Prime Coat/Tack Coat				
Related Items:	A subsite Metavials				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02748	Prime Coat/Tack Coat				
Related Items: 02745	Asphalt Materials				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02749	Asphalt Driveway				
Related Items 02721	Untreated Base Course				
02752	Portland Cement Concrete Pavement	Wear * AASHTO T-96	Submit a 200 lb sample of aggregate per source, use form T-268.	Materials Source	Contractor must select another source.
		Soundness * AASHTO T-104	Submit a 200 lb sample of aggregate per	Materials Source	Contractor must select another materials source.
		Clay Lumps * AASHTO T-112	source, use form T-268.	Stockpile	Rework or replace stockpile.
		Water Quality AASHTO T-26	Submit a 200 lb sample of aggregate per source, use form T-268.	Source	Use an acceptable water source.
			Submit a 1 qt sample for each non-potable water source.		

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02752	Portland Cement Concrete Pavement (continued)	Mix Design (Trial Batches) Contractor's trial batches to be made in accordance with standard specifications. Trial batch results shall be submitted and ap-proved before con-crete pavement is placed. Sufficient batches shall be made to cover any possible changes in mix components that might occur. Sieve Analysis AASHTO T-27 and T-11	Submit a 1 pint sample of admixtures used in trial batches to Central Lab for fingerprinting. When production starts, send a sample of admixtures to Central Lab to insure they are the same as used in trial batches. One gradation per stockpile containing the approximate tonnage required for a single day of concrete paving.	Supplier's location Stockpile	Contractor may have to change his proportions of coarse and fine aggregate, wash or crush the coarse aggregate finer or add more cement. Rework or replace stockpile.

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02752	Portland Cement Concrete Pavement (continued)	Slump Test AASHTO T-119 and T-141 Air Test AASHTO T-152 and T-141	Test the first three truck loads at start up and the first three truck loads after each shutdown of more than one hour. Take additional tests at random through-out the shift (one test for every 800 yd of concrete). Test the first three truck loads after each failed test.	Plant Site (Platform)	Plant Site (Platform)
		Yield AASHTO T-121 and T-141	One test per day taken in conjunction with an air test.	Plant Site	Adjust mix design.
		Strength Test AASHTO T-23	One set of test cylinders per 2,600 yd of concrete pavement centrally mixed and hauled with non-agitating haul units, or one set of test cylinders for every 700 yd of concrete pavement centrally mixed and hauled with agitating haul units or transit	Plant site for non-agitated haul units, roadbed for agitating haul units.	Remove and replace with specification material, or appropriate price reduction.
		Temperature Requirement (Mix Temperature)	mixed. One determination with each slump test.	Platform	Take corrective action or discontinue operations.

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02752	Portland Cement Concrete Pavement (continued)	Test Beams AASHTO T-23 and T-97 Thickness	A minimum of two test beams for each day of concrete paving. A minimum of one core per 1,300 yd ² .	Plant site for centrally mixed concrete or transit mixed concrete. Pavement	Not an acceptance test. It is used to determine when traffic can be allowed on the pavement. Take two additional cores for deficient cores (one on each side midpoint between the deficient core and the adjacent
		Smoothness	A minimum of two pavement profiles for each day of concrete paving. For quantities, less than 4,000 yd² add to subsequent days production.	Pavement Surface	core). Appropriate price reduction or removal and replacement with specification material. Grinding of pavement bumps, loss of bonus pay, or both.
		Test Report	Submit forms T- 251 and T-258.		
Related Items: 03211 03390 03152 03055 03055	Reinforcing Steel Concrete Curing Compound Concrete Joint Control Portland Cement Fly Ash				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02762	Plowable Pavement Marker Marker and Epoxy	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
02765	Pavement Marking Paint Acrylic water based paint	Test Report	Submit 1 pint sample of each color to Central Materials Chemistry Lab A test report will be issued for the material.	Project Site	Rejection
	Glass Sphere (Beads)	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02768	Pavement Marking Materials				
	Pavement marking tape, Epoxy pavement markings, Mhylmathactrylate, Preformed thermoplastic legends	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
	Glass Sphere (Beads)	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
02771	Curb, Gutter, Driveway and Disabled Pedestrian Ramp				
Related Items: 03055 03152 03211 05120 03390	Concrete Concrete Joint Control Reinforcing Steel Structural Steel Concrete Curing Compound				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02773	Asphalt Concrete Curb				
	Mineral Aggregate	Gradation AASHTO T-27	One test per stockpile.	Stockpile	Rework or Replace
Related Items: 02748 02746 02745	Tack Coat Lime Asphalt Material				
02776	Concrete Sidewalk.				
3=7.0	Concrete Sidewalk, Median Filler, and Flatwork				
Related Items: 03055 03152 03390	Concrete Concrete Joint Control Concrete Curing Compound				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02785	Chip Seal Coat	Wear * AASHTO T-96	Submit a 50 lb sample of aggregate per source, use form T-268.	Material Source	Contractor must select another materials source.
		Soundness * AASHTO T-104	Submit a 50 lb sample of aggregate per source, use form	Material Source	Contractor must select another materials source.
		Unit Weight * AASHTO T-19	T-268. Submit a 50 lb	Stockpile	Contractor must select another materials source.
		Stripping * UDOT 8-945	sample of aggregate per source, use form T-268.	Stockpile	Contractor must select another materials source.
		Friction Value * AASHTO T-278 and T-279	Submit a 50 lb sample of aggregate per source, use form T-268.	Materials Source	Contractor must select another materials source.
		Rounded Particles * UDOT 8-929	Submit a 50 lb sample of aggregate per source, use form T-268.	Stockpile	Contractor must modify his crushing procedure or select a suitable source.
			Submit a 50 lb sample of aggregate per source, use form T-268.		

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02785 Related Items:	Chip Seal Coat (continued)	Sieve Analysis AASHTO T-27 and T-11 Temperature Requirements As per Specifications Test Report	A minimum of five determinations when the stockpile exceeds 2,500 tons, a minimum of four determinations when it is between 1,500 and 2,500 tons and a minimum of three determinations when it is less than 1,500 tons. (A minimum of one determination per 1,100 tons.) As necessary to determine specification compliance. Submit form T-138 weekly.	Stockpile Project Site	Correct, or remove and replace with specification material. As directed by the Engineer.
02745	Asphalt Material				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02786	Open Graded Surface Course Aggregate Source	Submit adequate sample of aggregate from each source (use form T-268) AASHTO T-19 Unit Weight *	1 per source	Stockpile or pit	Contractor must select another materials source
		AASHTO T-104 Soundness of Aggregate by use of Sodium Sulfate*	1 per source	Stockpile or pit	Contractor must select another materials source
		AASHTO T-96 L.A. Wear*	1 per source	Stockpile or pit	Contractor must select another materials source
		AASHTO T-112 clay lumps and friable particles*	1 per source	Stockpile or pit	Contractor must select another materials source
		AASHTO T-278 and T-279 polish test*	1 per project as required by the test method	Stockpile or pit	Contractor must select another materials source

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02786	Open Graded Surface Course (Continued)				
	Aggregate properties	Sample in accordance with AASHTO T-2			
		ASTM D-5821 Fract- face. (One and two fract-face)**	1 test per week	Stockpile	Reject Stockpile
		AASHTO T-89, T-90, liquid limit and plasticity index **	Initial	Stockpile	Reject Stockpile
		AASHTO T-304 Fine aggregate angularity**	Initial	Stockpile	Reject Stockpile
		ASTM D-4791 Flat and elongated 1 to 3 ratio **	Initial	Stockpile	Reject Stockpile
		AASHTO T-176 Sand equivalent **	Initial	Stockpile	Reject Stockpile

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02786	Open Graded Surface Course (Continued)				
	Job mix design	AC - Aggregate mix design UDOT 8-954	Once per project. (10 working days before beginning to pave). Also when AC source and aggregate gradation and source change.	Verified mix design prior to paving	New job mix design
		AASHTO T-11, T-27, T-30 Aggregate gradation	Once per project (10 working days before beginning to pave). Also when aggregate source and/or gradation change	Verified mix design prior to paving	New job mix design

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02786	Open Graded Surface Course (Continued)				
		AASHTO T-168 and ASTM D-3665 sampling and hot mix asphalt random sampling	4 per lot	Hot plant	
		AASHTO T-145 degree of particle coating	Initial	Hot plant	Modify production to meet coating requirements
		ASTM D-6307 Asphalt content of hot mix asphalt by ignition method (For aggregate gradation)	4 per lot	Hot plant	
		AASHTO T-30 Mechanical analysis of extracted aggregate	4 per lot	Hot plant	Bonus/Deduction/Rejection

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02786	Open Graded Surface Course (Continued)				
		ASTM E 1274 Pavement roughness using profilograph	Two per lane each on wheel path within 2 days of placement	Project site	Bonus/correction/reporfile

Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
Pressurized Irrigation Systems				
Polyvinyl Chloride (PVC) Pipe (Irrigation System)	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
Stop and Waste Valve (Irrigation System)	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
Backflow Preventer (Irrigation System)	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
Automatic Control Valve (Irrigation System)	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
Automatic Controller (Irrigation System)	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
Class B Concrete PVC Conduit Junction Box and Extension				
	Type of Construction Pressurized Irrigation Systems Polyvinyl Chloride (PVC) Pipe (Irrigation System) Stop and Waste Valve (Irrigation System) Backflow Preventer (Irrigation System) Automatic Control Valve (Irrigation System) Automatic Controller (Irrigation System) Class B Concrete PVC Conduit Junction Box and	Type of Construction Pressurized Irrigation Systems Polyvinyl Chloride (PVC) Pipe (Irrigation System) Stop and Waste Valve (Irrigation System) Backflow Preventer (Irrigation System) Backflow Preventer (Irrigation System) Automatic Control Valve (Irrigation System) Automatic Control System) Automatic Control (Irrigation System) Automatic Controller (Irrigation System) Automatic Controller (Irrigation System) Automatic Controller (Irrigation System) Automatic Controller (Irrigation System) Class B Concrete PVC Conduit Junction Box and	Type of Construction Pressurized Irrigation Systems Polyvinyl Chloride (PVC) Pipe (Irrigation System) Stop and Waste Valve (Irrigation System) Backflow Preventer (Irrigation System) Backflow Preventer (Irrigation System) Manufacturer's Certificate of Compliance Manufacturer's Certificate of Compliance Manufacturer's Certificate of Compliance Manufacturer's Certificate of Compliance Automatic Control Valve (Irrigation System) Manufacturer's Certificate of Compliance Manufacturer's Certificate of Compliance Automatic Controller (Irrigation System) Manufacturer's Certificate of Compliance Each Shipment Each Shipment Each Shipment Each Shipment Class B Concrete PVC Conduit Junction Box and	Type of Construction Acceptance Documentation Pressurized Irrigation Systems Polyvinyl Chloride (PVC) Pipe (Irrigation System) Stop and Waste Valve (Irrigation System) Manufacturer's Certificate of Compliance Backflow Preventer (Irrigation System) Manufacturer's Certificate of Compliance Manufacturer's Certificate of Compliance Manufacturer's Certificate of Compliance Manufacturer's Certificate of Compliance Automatic Control Valve (Irrigation System) Manufacturer's Certificate of Compliance Manufacturer's Certificate of Compliance Automatic Controller (Irrigation System) Manufacturer's Certificate of Compliance Each Shipment Project Site Project Site Project Site Class B Concrete PVC Conduit Junction Box and

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02812	Pressurized Irrigation Systems (continued)				
	Drip Valve Control Assembly (Irrigation System	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
	Pop-up Sprinkler (Irrigation System)	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
	Rotary Sprinkler (Irrigation System)	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
	Micro Sprinkler (Irrigation System)	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
	Drip Emitter (Irrigation System)	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02821	Chain Link Fencing and Gates	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
Related Items: 03055	Concrete				
02822	Right-of-Way Fence and Gate				
	Wire Mesh, Barbed Wire, Wood Post, Metal Post, and Gates	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
Related Items: 03055	Concrete				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02825	Cattle Guard	Fabricators must be prequalified by Materials Division through the Quality Management Plant Precast/Prestressed Concrete Structures. Select from Materials Division list of prequalified sources. Test Report	Issued by Central Lab based on tests performed prior to shipment. A test report will accompany the shipment. All pretested material will be tagged with an orange UDOT sticker.	Fabrications Plant	Rejection
Related Items: 03310 03211 05120 07221	Concrete Structural Concrete Reinforcing Steel Structural Steel Aggregate (UTBC)	Per Section 03055 except as follows. Mix Design(Trail Batches) must be submitted and approved by the Materials Division each new calender year. Visual Inspection	Each Shipment	Project Site	Rejection

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02841	Traffic Barriers				
	Beam Guardrail	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
		Visual Inspection	Each Shipment	Project Site	Rejection
	Precast Concrete Barrier	Fabricators must be pre- qualified by the Materials Division through the Quality Management Plan: Precast/Prestressed Concrete Structures. Select from Materials Division list of pre- qualified sources.		Prequalified Source	Rejection of product and possible removal from pre-qualified source list.
		Test Report	Issued by Central Lab based on tests performed prior to shipment. A test report will accompany the shipment. All pretested material will be tagged with an orange UDOT	Fabricators Plant	Rejection
	Concrete	Per Section 03055 except as follows. Mix Design(Trial Batches) must be submitted and approved by the Materials Division each new calender year.	sticker.		
	Barrier Seal	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
Related Items:		Visual Inspection	Each Shipment	Project Site	Rejection
03211 03211	Reinforcing Steel Welded Steel Wire Reinforcement			,	

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02841	Traffic Barriers (continued)				
	Beam Guardrail and Double Beam Guardrail	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
		Visual Inspection	Each Shipment	Project Site	Rejection
Related Items: 06055 03055	Posts and Blocks Concrete				
	Traffic Control Cable				
	Polyethylene Tube, Cable, Clip, and Reflectors	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
Related Items: 06055	Posts				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02841	Traffic Barriers (continued)				
	Barrier Reflector	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
Related Items: 02842	Sheeting				
02842	Delineators				
	Steel or Flexible Posts Sheeting	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
Related Items: 02765	Pavement Marking Paint				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02861	Precast Noise/ Retaining Walls	Fabricators must be pre-qualified by the Materials Division through the Quality Management Plan: Precast/ Prestressed Concrete Structures. Select from Materials Division list of pre-qualified sources. Test Report	Issued by Central Lab based on tests performed prior to shipment. A test report will accompany the shipment. All pretested material will be tagged with an orange UDOT sticker.	Prequalified Source Fabricators Plant	Rejection of product and possible removal from prequalified source list. Rejection

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02861	Precast Noise/ Retaining Walls (continued) Concrete	Per Section 03055 except as follows. Mix Design(Trail Batches) must be submitted and approved, by the Materials Division, each new calendar			
		year. Visual Inspection	Each Shipment	Project Site	Rejection
Related Items: 03211 03211 05120 03152 02075	Reinforcing Steel (Epoxy Coated) Welded Wire Fabric (Epoxy Coated) Elastomeric Bearing Pad Backer Rod Geotextiles				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02891	Traffic Signs				
	Substrate and Fasteners	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
Related Items: 03055 03211 05120 06055 05120	Concrete Reinforcing Steel Anchor Bolts Posts Structural Steel				
02892	Traffic Signal	Manufacturer's Certificate of Compliance for each item.	Each Shipment	Project Site	Rejection
Related Items: 03055 03211 03575	Class A(AE) Concrete Reinforcing Steel (Epoxy Coated) Flowable Fill	Visual Inspection, all electrical equipment must be IMSA or Underwriters Laboratories (UL) certified.	Each Shipment	Project Site	Rejection
03575					

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02896	Boundary Survey				
	Right-of-Way Marker	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
Related Items: 03055	Concrete				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02911	Mulch				
	Cellulose Fiber Mulches	Manufacturer's Certificate of Compliance	One per lot	Project Site	Rejection
	Straw Mulch	Utah Department of Agriculture Field Certification	Per Field	Project Site	Rejection
	Tackifier	Manufacturer's Certificate of Compliance	One per lot	Project Site	Rejection
Related Items: 02922	Seed, Turf Seed and Turf Sod	Сотримес			
02912	Topsoil	Test Report (Contractor furnished topsoil)	Issued by approved independent soil testing laboratory. One test report per topsoil source.	Source Location	Rejection
Related Items: 02922 02932	Seed Plants				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02922	Seed, Turf Seed, and Turf Sod				
	Seed and Turf Seed	Certification report from a State or certified seed testing laboratory	Per each seed species per seed lot	Project Site	Rejection or price adjustment
	Fertilizer	Manufacturer's Certificate of Compliance	One per lot	Project Site	Rejection
	Turf Sod	Manufacturer's Certificate of Compliance	One per supplier	Project Site	Rejection
		Visual Inspection	Each Shipment	Project Site	Rejection
Related Items: 02912	Topsoil				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02932	Trees, Shrubs, and Groundcovers				
	Plants	Manufacturer's Certificate of Compliance	One per shipment	Nursery or Project Site	Rejection
Related Items:	т 1	Visual Inspection	Each Shipment	Project Site	Rejection
02912	Topsoil				
02966	Recycled Surface	Weight check	1 ft ² sample every 20 minutes.	Scarified mat	Reprocess from last acceptable tests.
		Temperature Check (Scarified material)	Every 20 minutes.	Scarified mat	Increase the number of heaters, or reduce travel speed, or adjust burners.

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
02967 Related Items 02786	Surface Repaving Open Graded Surface Coarse	Scarified Depth Check Temperature Requirements (Recycled mix) (Minimum Compaction Temperature)	500 ft control section 125 ft sublot One test per sublot As necessary to assure specification compliance. As necessary to assure specification compliance.	Scarified mat Scarified mat Mat	Make operational adjustments to obtain specification results. Make operational adjustments to obtain specification results. Adjust compaction efforts to coincide with paving operations.

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
03055	Portland Cement Concrete	Wear * AASHTO T-96	Submit a 200 lbs sample of aggregate per source, use form T-268.	Materials Source	Contractor must select another source.
		Soundness * AASHTO T-104	Submit a 200 lbs sample of aggregate per source, use form	Materials Source	Contractor must select another source.
		Clay Lumps * AASHTO T-112	T-268. Submit a 200 lbs sample of aggregate per	Stockpile	Rework or replace stockpile.
		Water Quality AASHTO T-26	source, use form T-268.	Source	Use an acceptable water source.
		Mix Design (Trial Batches) Contractor's trial batches to be made in accordance with standard specifications. Trial batch results shall be submitted and approved before any concrete is placed. Sufficient batches shall be made to cover any possible changes in mix components that might occur.	Submit a 1 qt sample for each non-potable source. Submit a 1 pint sample of admixtures used in trial batches to Central Lab for fingerprinting. When production starts, send samples of admixtures to Central Lab to insure they are the same as used in trial batches.	Supplier's Location	Contractor may have to change proportions of coarse and fine aggregate, wash or crush the coarse aggregate finer, or add more cement.

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
03055	Portland Cement Concrete (continued)	Sieve Analysis - Coarse and Fine Aggregate AASHTO T-11 and T- 27	Perform one test per stockpile per week in advance of placement. In addition, one test per stockpile prior to placements greater than 100 yd.	Stockpile	Rework or replace stockpile.
		Slump Test AASHTO T-119	At the start up and after each failed batch, test every batch until two consecutive batches pass. Then take one test per 50 yd.	Project Site Project Site	Another slump test is taken immediately. If the second slump test fails, the batch is rejected. If the second slump test meets specification, take a third slump test. The batch is then accepted or rejected based on the results of the third test.
		Air Test AASHTO T-152	At the start up and after each failed batch, test every batch until two consecutive batches pass. Then take one test per 50 yd ³ .	Project Site	Another air test is taken immediately. If the second air test fails, the batch is rejected. If the second air test meets specification, take a third air test. The batch is then accepted or rejected based on the results of the third test.
		Strength Test AASHTO T-22 and T-23	A minimum of one compressive strength test consisting of one set of three cylinders, will be taken for each 50 yd³, or fraction thereof. If placement is less than 8 yd³, proceed as directed.		Appropriate price reduction or removal and replacement with specification material.

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
03055	Portland Cement Concrete (continued)	Yield AASHTO T-121	One test per mix design for class AA(AE) and class A(AE).	Project Site	Adjust mix design
		Temperature Requirement (Mix Temperature)	One determination with each slump test.	Project Site	Take corrective action or discontinue operations.
	Portland Cement	Suppliers must be pre- qualified by The Materials Division through the Quality Management Plan: Cement. Select from Materials Division list of pre-qualified sources.		Prequalified Source	
		Verification Sample	One random sample per month obtained	Supplier's Plant	Rejection of product and possible removal from prequalified source list.
	Fly Ash	Suppliers must be pre- qualified by The Materials Division through the Quality Management Plan: Fly Ash. Select from Materials Division list of pre-qualified sources.	by Central Lab.	Prequalified Source	
Related Items: 03211	Reinforcing Steel and Welded Wire	Verification Sample	One random sample every two months obtained by Central Lab.	Supplier's Plant	Rejection of product and possible removal from prequalified source list.
Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
03152	Concrete Joint Control				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
03152	Concrete Joint Control				
	Preformed Elastomeric Joint Sealants	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
	Hot-Poured Joint Sealant	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
	Premolded Joint Fillers	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
	Silicone Joint Sealer	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
	Backer Rod	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
	Joint Sealer (Structures)	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
	Waterstops	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
03211	Welded Wire pre-qua Materia through Manage Reinfor Select f Materia list of p	Fabricators must be pre-qualified by Materials Division through the Quality Management Plan: Reinforcing Steel. Select from Materials Division list of pre-qualified sources.		Prequalified Source	Rejection of product and possible removal from pre- qualified source list.
		Manufacturer's Certificate of compliance	Per Shipment	Project Site	Rejection
	Epoxy Coating	Fabricators must be pre-qualified by Materials Division through the Quality Management Plan: Reinforcing Steel Epoxy Coating. Select from Materials Division list of pre-qualified sources.		Prequalified Source	Rejection of product and possible removal from pre- qualified source list.
			Per Shipment	Project Site	Rejection
	Galvanized Coating	Manufacturer's Certificate of compliance Fabricators must be pre-qualified by Materials Division		Prequalified Source	Rejection of product and possible removal from prequalified source list.
		through the Quality Management Plan: Reinforcing Steel Galvanized Coating. Select from Materials Division list of pre-qualified sources.	Per Shipment	Project Site	Rejection
		Manufacturer's Certificate of compliance			

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
03310 Related Items: 03055 03211 03152 03152 03152	Structural Concrete Concrete Reinforcing Steel Concrete Joint Control Curing Compounds Waterstops				
03392	Penetrating Concrete Sealers	Choose from Accepted Products Listing Manufacturer's Certificate of compliance Verification Sample	Each Shipment Submit 1 qt sample to the Engineer	Project Site	Rejection
03412	Prestressed Concrete	Fabricators must be pre- qualified by The Materials Division through the Quality Management Plan: Precast/Prestressed Concrete Structures. Select from Materials Division list of pre- qualified sources. Test Report	Issued by Central Lab based on tests performed prior to shipment. A test report will accompany the shipment. All pretested material will be tagged with an orange UDOT sticker.	Prequalified Source Fabricators Plant	Rejection of product and possible removal from Prequalified source list. Rejection

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
03412	Prestressed Concrete (continued)				
	Concrete	Per Section 03055 except as follows. Mix Design (Trial Batches) must be submitted and approved by the Materials Division each new calendar year.			Rejection
		Visual Inspection	Each Girder	Project Site	Rejection
Related Items: 03310 03211 05120	Structural Concrete Reinforcing Steel Elastomeric Bearing Pads				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
03575	Flowable Fill	Slump Test AASHTO T-119	At startup and daily	Project Site	As directed by the Engineer
		Strength Test	One per mix design per supplier.		
		AASHTO T-22 and T-23			
		Sieve Analysis (Coarse and Fine Aggregate) AASHTO T-11 and T-27	One per stockpile in advance of placement.		
Related Items: 03055 03055	Cement Fly Ash				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
05120	Structural Steel Structural Metals High Tensile Strength Nuts, Bolts, and Washers Load Indicator Washers	Test Report	Issued by Central Lab based on tests performed prior to shipment. A test report will accompany the shipment. All pretested material will be tagged with an orange UDOT sticker.		Rejection
		Visual Inspection	Each Shipment	Project Site	Rejection
05822	Expansion Bearing	Test Report	Issued by Central Lab based on tests performed prior to shipment. A test report will accompany the shipment. All pretested material will be tagged with an orange UDOT sticker.	Manufacturer' s Plant or Central Lab	Rejection
Related Items: 05120	Structural Steel				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
05832	Expansion Joint	Select a joint system from the Department's approved list of joint systems.			
		Manufacturer's Certificate of Compliance.	Per Shipment	Project Site	Rejection
		Visual Inspection	Each Shipment	Project Site	Rejection
Related Items: 05120	Structural Steel				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
06055	Timber and Timber Treatment				
	Structural Timber, Lumber, Sign Post, Guardrail Post, and Mailbox Post	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
09970	Painting for Structural Steel Coating System	Select a complete coating system from the Accepted Products Listing available through the Research Division. Test Report	Issued by Central Lab based on tests performed prior to shipment. A test report will accompany the shipment. All pretested material will be tagged with an orange UDOT sticker.	Central Lab	Rejection

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
16135	Electrical Junction Boxes	Manufacturer's Certificate of Compliance for each item.	Each Shipment	Project Site	Rejection
Related Items: 02061 02842	Select Aggregate Delineator				

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
16525	Highway Lighting	Manufacturer's Certificate of Compliance for each item.	Each Shipment	Project Site	Rejection
		Visual Inspection, all electrical equipment must be IMSA or Underwriter Laboratories(UL) certified.	Each Shipment	Project Site	Rejection
Related Items:					

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
16135 03055 03211 03575 16560 02842 05210	Electrical Junction Boxes Portland Cement Concrete Reinforcing Steel and Welded Wire Flowable Fill Highway Traffic Signal Delineators Structural Steel				
16526	Electric Work (Bridges)	Manufacturer's Certificate of Compliance	Each Item	Project Site	Rejection
	Galvanized Steel Pipe, Polyvinyl Pipe, and Copper Pipe	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
	Cast Iron Pipe Fittings and Welded Steel Pipe	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
	Fittings, Valves, Gaskets, Bicycle Grates, Manholes, etc.	Manufacturer's Certificate of Compliance	Each Shipment	Project Site	Rejection
	Electrical Components All other electrical components.	Manufacturer's Certificate of Compliance for each item. Visual Inspection, all electrical equipment must	Each Shipment Each Shipment	Project Site Project Site	Rejection Rejection
		electrical equipment must be IMSA or Underwriters Laboratories (UL) certified.	Each Shipment	Troject Site	resection

Section	Material Type or Type of Construction	Testing Method/ Acceptance Documentation	Testing Frequency	Point of Acceptance	Required Action for out of Specification Material
	Plumbing Components				
	All other plumbing components.	Manufacturer's Certificate of Compliance for each item.	Each Shipment	Project Site	Rejection

Items that are not listed, but are to be incorporated in the work, still require appropriate testing or certificates of compliance as outlined in the Standard Specifications, Project Special Provisions and Supplemental Specifications and change orders.